

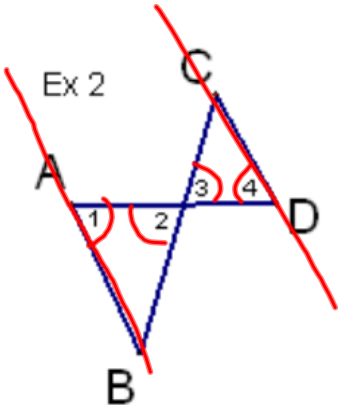
Nov 8-9:54 AM

| S. | R. |
|-----------------------------|--|
| ① $\angle 1 \cong \angle 2$ | ① Given |
| ② $m \parallel n$ | ② If corr $\angle s \cong$, then \parallel . |
| ③ $\angle 3 \cong \angle 4$ | ③ If \parallel , then corr $\angle s \cong$. |

Ex 1

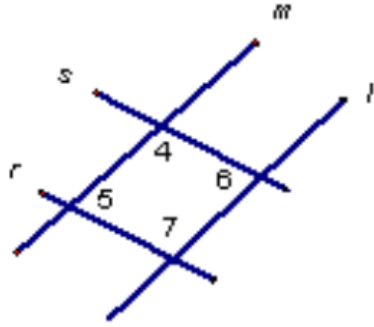
Given: $\angle 1 \cong \angle 2$
Prove: $\angle 4 \cong \angle 3$

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| | | |
|--|--|--|
| <p>S.</p> <p>① —</p> <p>② $\angle 2 \cong \angle 3$</p> <p>③ $\angle 1 \cong \angle 4$</p> <p>④ $\overline{AB} \parallel \overline{CD}$</p> | <p>R.</p> <p>① Given</p> <p>② Vert. \angles are \cong</p> <p>③ Subst</p> <p>④ \angles alt \angles are \cong, then \parallel.</p> | <p>Ex 2</p>  <p>Given: $\angle 1 \cong \angle 2$ $\angle 4 \cong \angle 3$ Prove: $\overline{AB} \parallel \overline{CD}$</p> |
|--|--|--|

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Ex 3



Given: $\angle 4 \cong \angle 7$
 $l \parallel m$
 Prove: $r \parallel s$

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Which lines are parallel based on the given information?

a and b

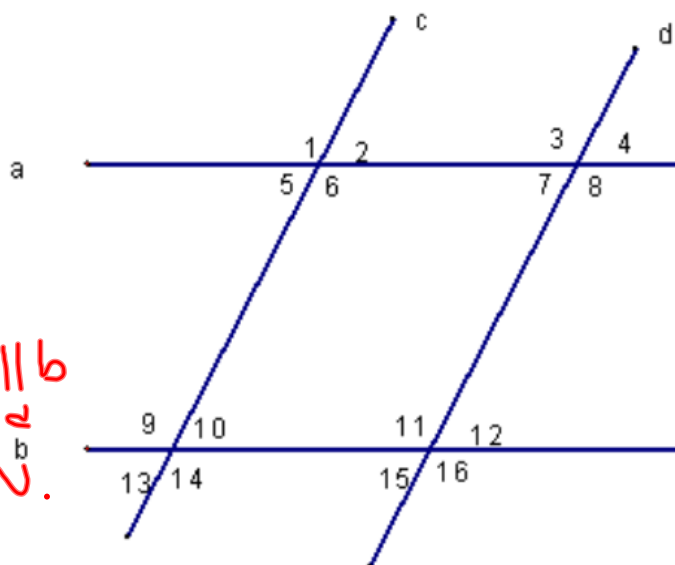
OR

c and d

OR

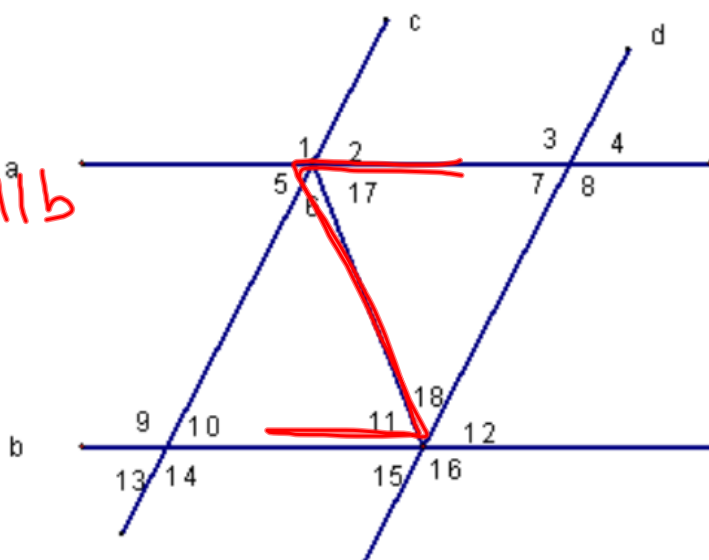
neither

1. $\angle 1 \cong \angle 9$ *a || b*
2. $\angle 3 \cong \angle 5$ *c || d*
3. $\angle 1 \cong \angle 2$ *a || b*
4. $\angle 3 \cong \angle 6$ *a || b*
5. $\angle 1 \cong \angle 6$ *Neither*
6. $m\angle 8 + m\angle 2 = 180$ *a || b*
7. $m\angle 2 + m\angle 3 = 180$ *c || d*
8. $m\angle 10 + m\angle 5 = 180$ *N.*
9. $\angle 3 \cong \angle 2$ *c || d*
10. $\angle 1 \cong \angle 6$ *N*



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11. $\angle 1 \cong \angle 7$ *a || b*
12. $\angle 8 \cong \angle 6$ *c || d*



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p155-156
#s 13-24, 26-31
34

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